	THE CHAINS
1	
2	1. (Cancelled)
3	
4	2. (Previously Amended) The method of claim 21, wherein said
5	data for said plurality of customer locations includes travel
6	time and cost to transfer a part from each of said plurality of
7	stocking locations to each of said customer locations.
8	
9	3. (Currently Amended) A method of determining inventory levels
10	of parts for a plurality of stocking locations within a
11	neighborhood of a primary location, wherein said parts are
12	normally stocked at more than one of said stocking locations,
13	said method comprising:
14	
15	providing data for plurality of customer locations, unit price
16	of said parts, request rates for each of said parts for each of
17	said customer locations, handling costs for each of said
18	stocking locations, and travel time and transportation cost
19	between said stocking locations, wherein said request rates
20	include a probability distribution for one or more of said
21	request rates;
22	
23	specifying a parts procurement time performance measure for
24	transfer of said parts from said plurality of stocking locations
25	to said plurality of customer locations, wherein said parts
26	procurement time performance measure comprises the percentage of
27	parts in said request rates which can be transferred from any
28	said stocking location to each respective said customer location
29	within a pre-specified time, and wherein equipment requiring one

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1
    or more of said parts is installed at one or more of said
 2
    plurality of customer locations;
 3
 4
    entering said data and said performance measure into an
 5
    optimization computer program;
 6
 7
    computing said inventory levels of said parts for said plurality
 8
    of stocking locations using said optimization computer program;
 9
    and
10
11
    ordering sufficient numbers of said parts to maintain said
12
    inventory levels at said plurality of stocking locations,
13
    wherein said inventory levels are such that said performance
14
    measure is met.
15
16
    4. (Original) The method of claim 3, wherein said probability
17
    distribution is a Poisson distribution.
18
19
    5. (Cancelled)
20
21
    6. (Currently Amended) A method of determining inventory levels
22
    or parts for a plurality of stocking locations within a
    neighborhood of a primary location, wherein said parts are
23
24
    normally stocked at more than one of said stocking locations,
25
    said method comprising:
26
27
    providing data for a plurality of customer locations, unit price
28
    of said parts, request rates for each of said parts for each of
29
    said customer locations, handling costs for each of said
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stocking locations, and travel time and transportation cost 1 2 between said stocking locations; 3 specifying a parts procurement time performance measure for 4 transfer of said parts from said plurality of stocking locations 5 to said plurality of customer locations, wherein said parts 6 7 procurement time performance measure comprises the percentage of parts in said request rates which can be transferred from any 8 said stocking location to each respective said customer location 9 10 within a pre-specified time, wherein said parts are grouped by importance into a plurality of groups and said pre-specified 11 12 time comprises a corresponding plurality of times, and wherein 13 equipment requiring one or more of said parts is installed at one or more of said plurality of customer locations; 14 15 16 entering said data and said performance measure into an 17 optimization computer program; 18 19 computing said inventory levels of said parts for said plurality of stocking locations using optimization computer program; and 20 21 22 ordering sufficient numbers of said parts to maintain said 23 inventory levels at said plurality of stocking locations, 24 wherein said inventory levels are such that said performance 25 measure is met. 26 27 7. (Original) The method of claim 6, wherein inventory levels are computed to minimize overall cost while meeting or exceeding 28 29 said plurality of times.

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- 8. (Previously Amended) The method of claim 21, wherein said 1
- optimization computer program is a mixed integer optimization 2
- 3 program.

4

- 5 9. (Previously Amended) The method of claim 21, wherein said
- inventory levels are computed to meet a total inventory cost б
- while maximizing the percentage of said parts in said request 7
- rates which can be transferred from any said stocking location 8
- to each respective said customer location within a pre-specified 9
- 10 time.

11

- 12 10. (Previously Amended) The method of claim 21, further
- comprising computing an estimated time for each part to be 13
- transferred from any said stocking location to each respective 14
- said customer location for each of said parts in said request 15
- 16 rates.

17

18 11 - 18 (Cancelled)

19

- 19. (Currently Amended) A computer program product for 20
- instructing a processor to determine inventory levels of parts 21
- for a plurality of stocking locations within a neighborhood of a 22
- primary location, wherein said parts are normally stocked at 23
- 24 more than one of said stocking locations, said computer program
- 25 product comprising;

26

27 a computer readable medium;

28

- first program instruction means for providing data for a 29
- plurality of customer locations, unit price of said parts, 30

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request rates for each of said parts for each of said customer
 2
     locations, handling costs for each of said stocking locations,
     and travel time and transportation cost between said stocking
  3
     locations, wherein said request rates include a probability
 4
 5
     distribution for one or more of said request rates;
 6
 7
     second program instruction means for specifying a parts
    procurement time performance measure for transfer of said parts
 8
 9
     from said plurality of stocking locations to said plurality of
10
     customer locations; wherein said parts procurement time
    performance measure comprises the percentage of parts in said
11
12
    request rates which can be transferred from any said stocking
13
    location to each respective said customer location within a pre-
14
    specified time, and wherein equipment requiring one or more of
15
    said parts is installed at one or more of said plurality of
16
    customer locations:
17
18
    third program instruction means for providing said data and said
19
    performance measure to an optimization computer program;
20
21
    fourth program instruction means for computing said inventory
22
    levels of said parts for said plurality of stocking locations
23
    using said optimization computer program; and
24
25
    fifth program instruction means for ordering sufficient numbers
26
    of said parts to maintain said inventory levels at said
27
    plurality of stocking locations, wherein said inventory levels
28
    are such that said performance measure is met; and wherein
29
30
    all said program instruction means are recorded on said medium.
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 2
    20. (Cancelled)
 3
 4
    21. (Currently Amended) A method of determining inventory levels
 5
    of parts for a plurality of stocking locations within a
 б
    neighborhood of a primary location, wherein said parts are
    normally stocked at more than one of said stocking locations.
 7
 8
    said method comprising:
 9
10
    providing data for a plurality of customer locations, unit price
11
    of said parts, request rates for each of said parts for each of
12
    said customer locations, handling costs for each of said
13
    stocking locations, and travel time and transportation cost
14
    between said stocking locations;
15
    specifying a parts procurement time performance measure, wherein
16
17
    said parts procurement time performance measure comprises the
18
    percentage of parts in said request rates which can be
19
    transferred from any said stocking location to each said
20
    respective customer location within a pre-specified time, and
21
    wherein said parts are grouped by importance into a plurality of
22
    groups and said pre-specified time comprises a corresponding
23
    plurality of times;
24
25
    entering said data and said performance measure into an
26
    optimization computer program;
27
28
    computing said inventory levels of said parts for said plurality
29
    of stocking locations using said optimization computer program;
30
    and
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1
 2
    ordering sufficient numbers of said parts to maintain said
    inventory levels at said plurality of stocking locations.
 3
 4
    22. (Previously Presented) The method of claim 21, wherein
 5
 6
    inventory levels are computed to minimize overall cost while
 7
    meeting or exceeding said plurality of times.
 8
9
    23. (Cancelled)
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11
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